

CLAIMS

What is claimed is:

1. A dampening system for a miniature gas turbine engine comprising:
a resilient member mounted between a bearing and a static structure, said resilient member comprising a seal with an at least partially encapsulated spring.
2. The dampening system as recited in claim 1, wherein said seal comprises a resilient C-shaped member in cross-section.
3. The dampening system as recited in claim 1, wherein a coil of said spring is canted.
4. The dampening system as recited in claim 1, wherein said resilient member is mounted within a groove formed within said static structure.
5. The dampening system as recited in claim 4, wherein said groove is formed within a sleeve mounted adjacent said static structure.
6. The dampening system as recited in claim 4, wherein said groove is formed within a sleeve mounted adjacent said static structure and a second housing portion.

7. A rotor system for a miniature gas turbine engine comprising:
an engine housing portion having a groove;
a resilient member mounted within said groove, said resilient member comprising a
seal with an at least partially encapsulated spring;
a bearing mounted adjacent said resilient member;
a shaft rotationally mounted within said bearing.
8. The rotor system as recited in claim 7, wherein said seal comprises a resilient
C-shaped member in cross-section.
9. The rotor system as recited in claim 7, wherein a coil of said spring is canted.